



SPEC® CINT2006 Result

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NEC Corporation

Express5800/120Ri-2
(Intel Xeon processor 5160)

SPECint®_rate2006 = 58.0

SPECint_rate_base2006 = 55.4

CPU2006 license: 9006

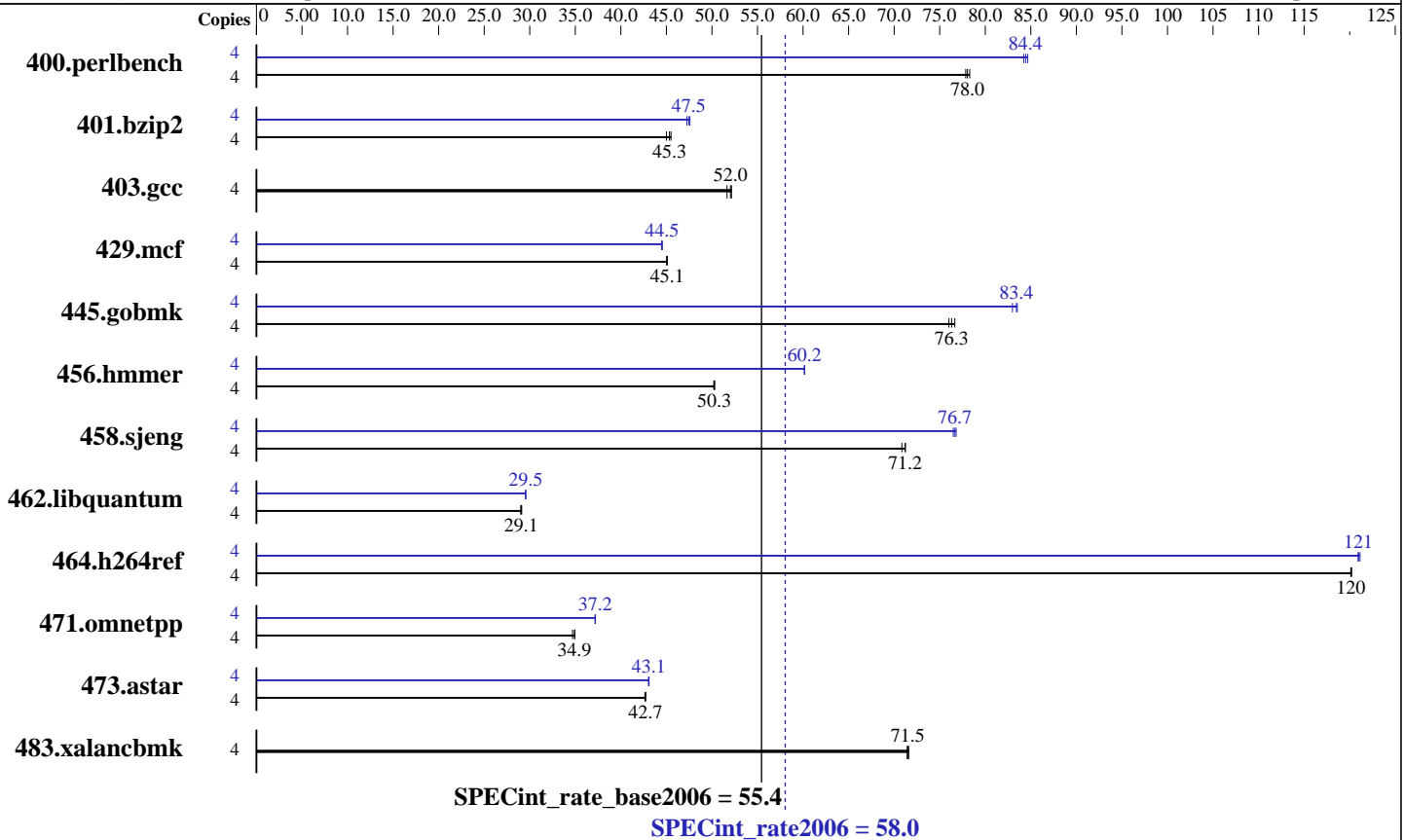
Test sponsor: NEC Corporation

Tested by: NEC Corporation

Test date: May-2007

Hardware Availability: May-2007

Software Availability: Apr-2007



Hardware

CPU Name: Intel Xeon 5160
 CPU Characteristics: 3.00 GHz, 4MB L2, 1333MHz bus
 CPU MHz: 3000
 FPU: Integrated
 CPU(s) enabled: 4 cores, 2 chips, 2 cores/chip
 CPU(s) orderable: 1,2 chips
 Primary Cache: 32 KB I + 32 KB D on chip per core
 Secondary Cache: 4 MB I+D on chip per chip
 L3 Cache: None
 Other Cache: None
 Memory: 8 GB (4x2 GB DDR2 5300F, 2 rank, CL5-5-5, ECC)
 Disk Subsystem: 1x146.5 GB SAS, 15000RPM
 Other Hardware: None

Software

Operating System: 64-Bit SUSE LINUX Enterprise Server 10, Kernel 2.6.16.21-0.8-smp on an x86_64
 Compiler: Intel C++ Compiler for IA32/EM64T application, Version 9.1 - Build 20070320, Package-ID: I_cc_c_9.1.049
 Auto Parallel: No
 File System: ReiserFS
 System State: Multiuser, Runlevel 3
 Base Pointers: 32-bit
 Peak Pointers: 32/64-bit
 Other Software: MicroQuill SmartHeap Library 8.1



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Results Table

Benchmark	Base						Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
400.perlbench	4	502	77.9	499	78.3	<u>501</u>	<u>78.0</u>	4	<u>463</u>	<u>84.4</u>	462	84.7	464	84.2
401.bzip2	4	858	45.0	848	45.5	<u>851</u>	<u>45.3</u>	4	811	47.6	817	47.3	<u>813</u>	<u>47.5</u>
403.gcc	4	623	51.7	<u>619</u>	<u>52.0</u>	617	52.1	4	623	51.7	<u>619</u>	<u>52.0</u>	617	52.1
429.mcf	4	810	45.0	809	45.1	<u>809</u>	<u>45.1</u>	4	819	44.5	820	44.5	<u>820</u>	<u>44.5</u>
445.gobmk	4	547	76.7	552	76.0	<u>550</u>	<u>76.3</u>	4	<u>503</u>	<u>83.4</u>	506	83.0	502	83.5
456.hammer	4	743	50.2	<u>742</u>	<u>50.3</u>	742	50.3	4	620	60.2	621	60.1	<u>620</u>	<u>60.2</u>
458.sjeng	4	683	70.8	<u>680</u>	<u>71.2</u>	679	71.2	4	633	76.5	<u>631</u>	<u>76.7</u>	630	76.8
462.libquantum	4	2846	29.1	2857	29.0	<u>2853</u>	<u>29.1</u>	4	<u>2805</u>	<u>29.5</u>	2804	29.6	2805	29.5
464.h264ref	4	737	120	<u>737</u>	<u>120</u>	736	120	4	<u>732</u>	<u>121</u>	731	121	732	121
471.omnetpp	4	<u>716</u>	<u>34.9</u>	715	34.9	720	34.7	4	672	37.2	<u>672</u>	<u>37.2</u>	672	37.2
473.astar	4	659	42.6	<u>657</u>	<u>42.7</u>	657	42.7	4	652	43.1	652	43.0	<u>652</u>	<u>43.1</u>
483.xalancbmk	4	385	71.6	<u>386</u>	<u>71.5</u>	386	71.4	4	385	71.6	<u>386</u>	<u>71.5</u>	386	71.4

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Operating System Notes

'ulimit -s unlimited' was used to set the stacksize to unlimited prior to run
'/usr/bin/taskset' used to bind processes to CPUs

General Notes

The system bus runs at 1333 MHz
All binaries were built with 32-bit Intel compiler except:
401.bzip2, 456.hammer and 462.libquantum in peak were built with
64-bit Intel compiler by changing the path for include and library files.

The Express5800/120Rg-1 and the Express5800/120Ri-2 models are
electronically equivalent.
The results have been measured on a Express5800/120Ri-2 model.

Base Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc



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Base Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_X64
462.libquantum: -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX

Base Optimization Flags

C benchmarks:

-fast

C++ benchmarks:

-xP -O3 -ipo -no-prec-div -L/opt/SmartHeap_8.1/lib -lsmartheap

Peak Compiler Invocation

C benchmarks (except as noted below):

icc

401.bzip2: /opt/intel/cce/9.1.049/bin/icc
-I/opt/intel/cce/9.1.049/include
-L/opt/intel/cce/9.1.049/lib

456.hmmer: /opt/intel/cce/9.1.049/bin/icc
-I/opt/intel/cce/9.1.049/include
-L/opt/intel/cce/9.1.049/lib

462.libquantum: /opt/intel/cce/9.1.049/bin/icc
-I/opt/intel/cce/9.1.049/include
-L/opt/intel/cce/9.1.049/lib

C++ benchmarks:

icpc

Peak Portability Flags

400.perlbench: -DSPEC_CPU_LINUX_X64
401.bzip2: -DSPEC_CPU_LP64
456.hmmer: -DSPEC_CPU_LP64
462.libquantum: -DSPEC_CPU_LP64 -DSPEC_CPU_LINUX
483.xalancbmk: -DSPEC_CPU_LINUX



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Peak Optimization Flags

C benchmarks:

400.perlbench: -prof_gen(pass 1) -prof_use(pass 2) -fast

401.bzip2: -fast

403.gcc: basepeak = yes

429.mcf: -prof_gen(pass 1) -prof_use(pass 2) -fast
-L/opt/SmartHeap_8.1/lib -lsmartheap

445.gobmk: Same as 429.mcf

456.hmmer: Same as 400.perlbench

458.sjeng: Same as 429.mcf

462.libquantum: Same as 400.perlbench

464.h264ref: Same as 429.mcf

C++ benchmarks:

471.omnetpp: -prof_gen(pass 1) -prof_use(pass 2) -xP -O3 -ipo
-no-prec-div -L/opt/SmartHeap_8.1/lib -lsmartheap

473.astar: -prof_gen(pass 1) -prof_use(pass 2) -fast
-L/opt/SmartHeap_8.1/lib -lsmartheap

483.xalancbmk: basepeak = yes

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2006/flags/NEC-ic91-linux-flags.20090714.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2006/flags/NEC-ic91-linux-flags.20090714.xml>

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For other inquiries, please contact webmaster@spec.org.

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